**Title** : Total water usage in Coast Fork Watershed

**Instructions** : Use this rubric to assess your problem solving skills.

|  | **4** | **3** | **2** | **1** | **My Score** |
| --- | --- | --- | --- | --- | --- |
| Anticipating Problems | I carefully analyze complex processes and systems in order to anticipate and avoid various kinds of problems. | I usually analyze processes and systems to catch problems before they happen. | Sometimes, I think ahead to see if I can avoid problems. | I do not usually notice problems until they happen. |  |
| Analyzing Problems | I spend considerable time analyzing and describing a problem from different perspectives so I can come up with efficient and practical solutions. | I think about a problem carefully before I try to solve it. | With help, I think about a problem before I try to solve it. | I usually just go ahead and try to solve a problem without thinking about it. |  |
| Using Strategies | I use the problem solving strategies I learned flexibly and effectively. I invent new strategies when I need to. | I use the problem solving strategies I learned and knowledge of the subject matter to solve problems. | If I am reminded, I use the problem solving strategies I learned to solve problems. | I rarely use the problem solving strategies I learned to solve problems. |  |
| Selecting Information | When I see a problem that is part of a complex project, I can identify the available and necessary information, and I know several strategies for getting more information when I need it. | I can identify relevant information when I solve a problem. | Sometimes, I cannot tell whether information is important for solving a problem. | I cannot tell when information is important for solving a problem. |  |
| Dealing with Uncertainty | I enjoy working with complex problems that have no clear, best solutions. | I work comfortably on problems that do not have clear-cut answers. | Sometimes, I get frustrated if I do not get specific directions for working on problems without clear answers. | I avoid complicated problems unless I get specific directions and assurance that a clear-cut answer exists. |  |
| Reflecting on Processes | I reflect on my problem solving processes and make changes to be more efficient, accurate, collaborative, and creative. | After I solve a problem, I reflect on how it went so I can improve my problem solving skills. | If I am reminded, I think about how I solved or did not solve a problem. | Once I am finished with a problem, I rarely think about how I solved or did not solve it. |  |
| Communicating Solutions | I use precise, subject-appropriate (mathematical) language when communicating my processes and results. | I thoroughly explain how I solved a problem using accurate language. | With help, I explain how I solved a problem. | I rarely explain how I solved a problem. |  |
| Total |  |  |  |  |  |